Fig. 1

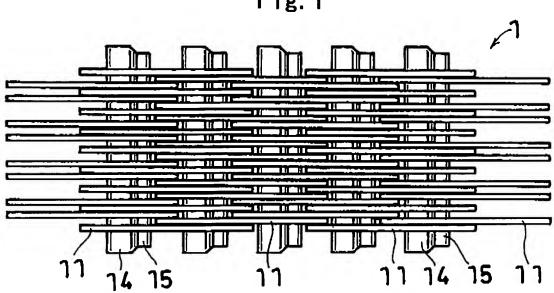


Fig. 2 13 12

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Fig. 3

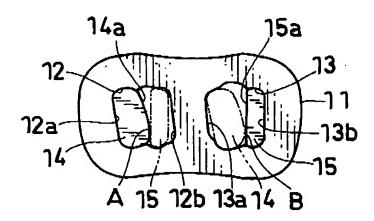
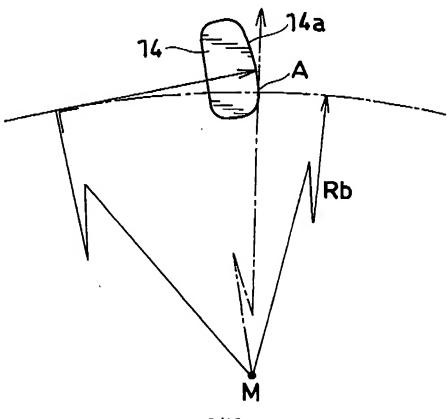


Fig. 4



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Fig. 5

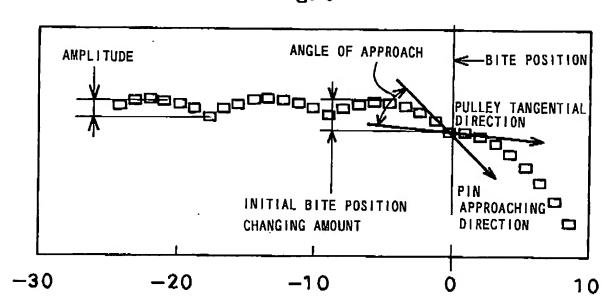


Fig. 6

100
[80
60
40
20
100
100
1000
10000
100000
FREQUENCY [Hz]

Fig. 7

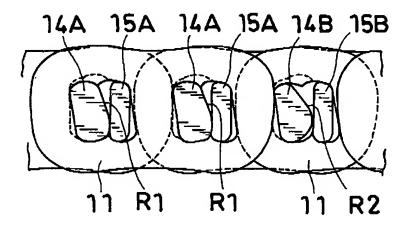
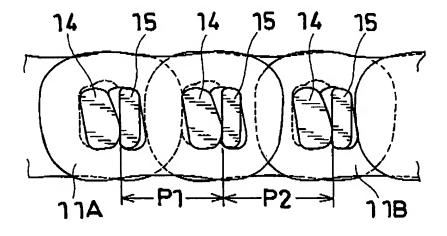


Fig. 8



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Fig. 9

LINK 1 s t 4th 2 n d 3 r d Nth PITCH P 1 P 1 Ρl P 1 P 1 P 1 (a) BASIC CIRCLE R 1 R 1 R 1 R 2 R 2 R m RADIUS

m=1 o r 2

4 t h Nth LINK 1 s t 2 n d 3 r dP 1 P 1 P 1 PITCH P 1 P 1 P 1 (b) BASIC R 2 R 1 R 3 CIRCLE R 1 R 2 R m RADIUS

m=1, 2 o r 3

Nth 4th 2 n d3 r d LINK 1 s t P 1 P 1 P 1 P 1 P 1 P 1 PITCH (c) BASIC R 1 R 1 CIRCLE R 1 R 1 R 1 R 1 RADIUS

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Fig. 10

2 n d 3 r d 4 t h Nth 1 s t LINK P 1 P 1 Pm P 2 PITCH P 1 P 2 (a) BASIC R 2 R 1 Rm R 1 R 2 CIRCLE R 1 RADIUS

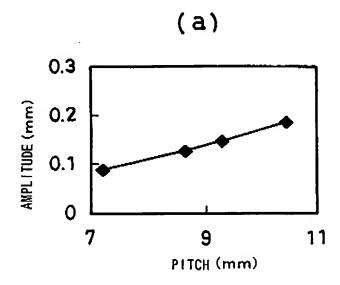
> m=1 o r 2 P1<P2, R1<R2

..... Nth 3rd4 t h 2 nd LINK 1 s t P 2 P 3 P m P 1 P 2 P 1 PITCH BASIC (b) R 2 R 3 R m R 1 R 2 CIRCLE R 1 RADIUS

> m=1, 2 o r 3 P1<P2<P3, R1<R2<R3

..... Nth 2 n d3 r d 4th LINK 1 s t P 1 P 1 P 1 P 1 P 1 P 1 PITCH (c) BASIC R 1 R 1 R 1 R 1 - R 1 R 1 CIRCLE RADIUS

Fig. 11



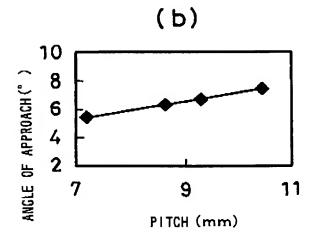
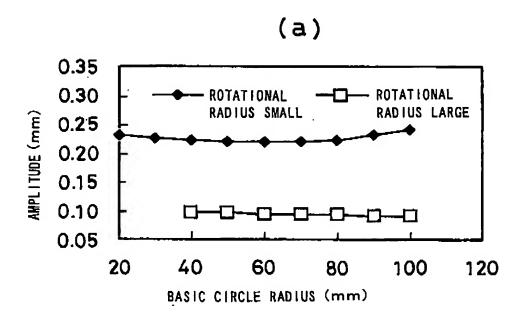
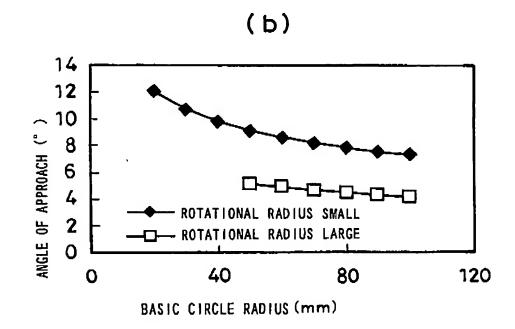


Fig. 12





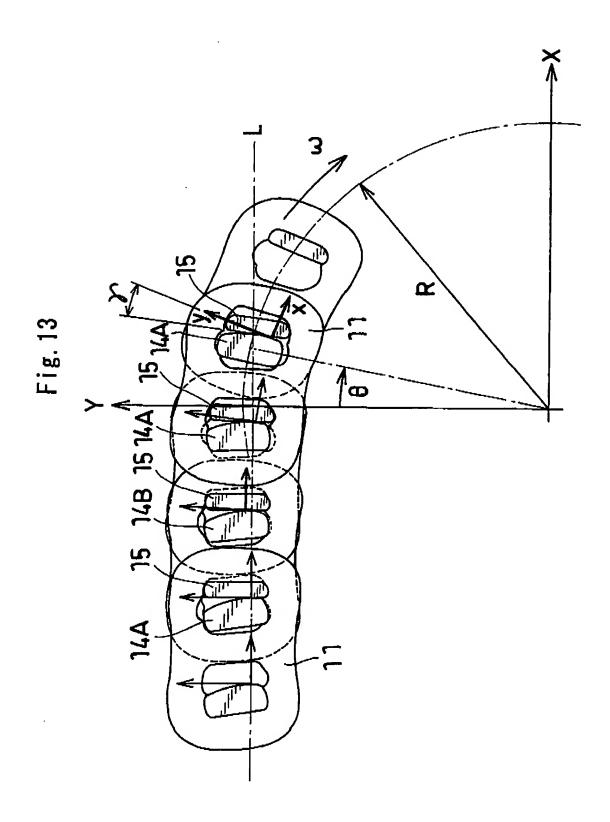
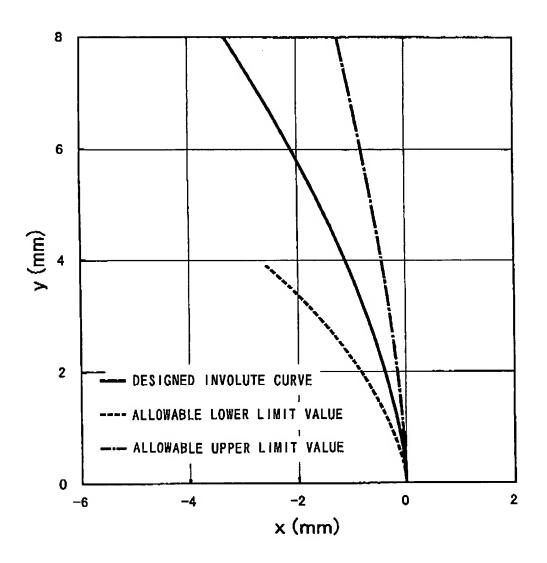
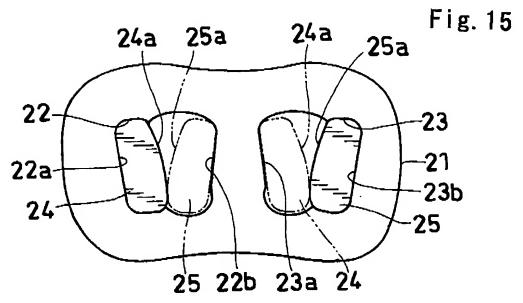
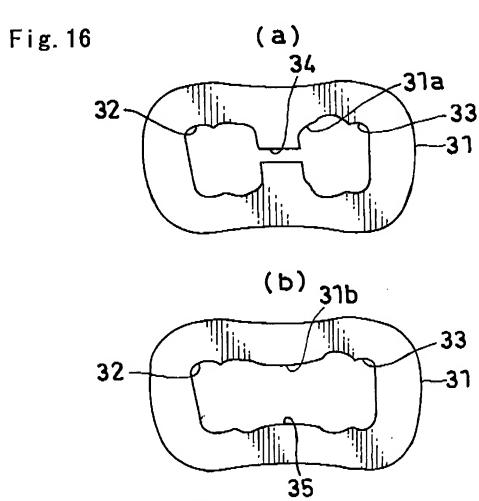


Fig. 14







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Fig. 17

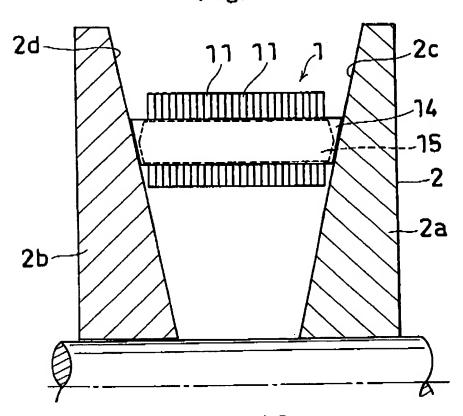


Fig. 18

